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APPLICATION N). F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/781,838		02/12/2001	Jiangnan J. Chen	CE08899R	7721	
22917	7590	08/25/2004		EXAM	EXAMINER	
	OLA, INC.	QUIN ROAD	SHAH, CI	SHAH, CHIRAG G		
IL01/3RD		QUIT ROALD	•	ART UNIT	PAPER NUMBER	
SCHAUM	SCHAUMBURG, IL 60196			2664		
				DATE MAILED: 08/25/200-	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)				
	09/781,838		CHEN ET AL.				
Office Action Summary	Examiner		Art Unit				
	Chirag G St	nah	2664				
The MAILING DATE of this communication Period for Reply			correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) days, or if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some yearned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no even n. a reply within the statuto eriod will apply and will tatute, cause the applic	t, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. CD (35 U.S.C. § 133).				
Status							
1) Responsive to communication(s) filed on 1	12 February 2001	<u>'.</u> .					
l	This action is no						
, , , , , , , , , , , , , , , , , , , ,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			,				
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the app	lication						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>3-6</u> is/are allowed.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
6)☐ Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	·						
8) Claim(s) are subject to restriction a	nd/or election red	quirement.	,				
Application Papers							
9)☐ The specification is objected to by the Exar	miner	•					
10)⊠ The drawing(s) filed on <u>12 February 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119		÷					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
" See the attached detailed Office action for a	list of the certific	ed copies not receive	ed.				
Attach manufa)							
Attachment(s) 1) Notice of References Cited (PTO-892)	,	l)	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948		Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE	3/08)	Lund	Patent Application (PTO-152)				
Paper No(s)/Mail Date U.S. Patent and Trademark Office	··································	6)					
	ce Action Summary	Pa	art of Paper No./Mail Date 20040816				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2 rejected under 35 U.S.C. 103(a) as being unpatentable over Sunay (3G 1xEV-DV Air Interface Specification) in view of Berliner et al. (U.S. Patent No. 6,631,126).

Referring to claim 1, Sunay discloses in the sections "Reverse Link Control Channels", "AKCH and RICH Structure" of a control frame having a frame comprising: a Reverse

Transmitter Sector Indicator Subchannel (Best Sector Indicator Channel (BSICH) used by the mobile to convey the best sector that it can received from every slot), wherein the (BSICH) is utilized by a mobile station to communicate a PN_OFFSET (8-ary orthogonal coding); a Reverse Quality Indicator subchannel (Reverse Rate Indicator Channel (RICH) used by the mobile to indicated the data rate transmitted on the R-SCH, identifies up to 8 data rates), wherein RICH is used to deliver of forward channel quality (rate) feedback; a Reverse Acknowledgment Indicator Sub-channel (R-AICH, bases on C/I measurements, Power Fraction information and the antenna capability the mobile indicates the data rates that can be supported on the F-PDCH), wherein the R-AICH is utilized for the indication of successful reception from the mobile station. Sunay fails to disclose of a Reverse Echo subchannel (R-Echo), wherein R-Echo is utilized to deliver forward link configuration information to assist in a fast cell site selection (FCSS) process.



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reverse signaling to all call legs. Berliner et al discloses in figure 3A and 3B respective portions

Berliner discloses in column 6, lines 27 to column 7, lines 30 of distribution function echoes the

of the specification that in the reverse direction, each leg receives a reverse-link transmission

from the mobile unit and separates the user data from any signaling information contained in the

transmission. The frame selection/distribution (FSD) removes the reverse signaling information

from the selected reverse packet and places it in the next forward packet being sent on the back

haul to the call legs as echoed reverse signaling 308. The distribution function therefore echoes

the reverse signaling to all call legs. Therefore, it would have been obvious to one of ordinary

skill in the art to modify the teachings of Sunay to include the teaching of reverse link echoing

control channel within a frame as taught by Berliner et al in order to retrieve the user's reverse

signaling information form the echoed signaling, even if it fails to receive the user's direct

transmission over the air interface, thus, minimizing delay.

Referring to claim 2, Sunay discloses in the section "Reverse Link Control Channels" the

control channel of claim 1 wherein the R-AISCH (AKCH) is one-bit (every slot)

acknowledgment feedback as claim.

Allowable Subject Matter

3. Claims 3-6 allowed.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703)305-3988, (for formal communications intended for entry)

Or:

Best Available Copy

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(703)305-3988 (for informal or draft communications, please label "Proposed" or

"DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal

Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chirag G Shah whose telephone number is 703-305-5639. The

examiner can normally be reached on M-F 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wellington Chin can be reached on 703-305-4366. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cgs

August 16, 2004

Primary Examiner